

## REMARKS

The outstanding Office Action has been studied carefully and by the present amendments and remarks an earnest attempt is being made to place the subject application in condition for immediate allowance. No new issues are raised that would require a further search and the Examiner is respectfully requested to enter and consider the amendments and remarks set forth herein. Accordingly, reconsideration of this application is requested.

Claims 1-22 are pending in the subject application. The Examiner rejects these claims under 35 U.S.C. § 103(a) as being unpatentable over “the admitted prior art in view of Trikha et al. (US 6,072,993).” This rejection is respectfully disagreed with, and is traversed below.

Independent claim 1 is directed to a method for operating a multi-mode mobile station comprising at least two antennas, wherein at least two modes operate within at least one common range of frequencies, comprising: transmitting a signal from a first antenna circuit of the mobile station in the common range of frequencies; and electronically detuning the resonance of a second antenna of the mobile station such that the resonance of the second antenna is mis-matched to the first antenna so as to reduce coupling of the transmitted signal from the first antenna into the second antenna circuit. (Emphasis added).

Similarly, independent claim 12 is directed to a multi-mode mobile station comprising at least two antennas, wherein at least two modes operate within at least one common range of frequencies, comprising: for each mode, a transmitter circuit comprising an antenna circuit that operates in the common range of frequencies; and a controller, responsive to a first one of said transmitter circuits transmitting, for electronically detuning the resonance of a second antenna of the mobile station such that the resonance of the second antenna is mis-matched to the first antenna so as to reduce coupling of the transmitted signal from the first antenna into the second antenna.

(Emphasis added).

Support for the above clarification can be found in the specification at, for example, the Detailed Description beginning at page 5. No new matter is introduced as a result of the foregoing clarification.

Claims 2-11 and 13-22 depend directly or indirectly from an independent claim and recite further detailed features of the claimed invention.

It is respectfully pointed out that in the subject claims, the antenna itself is detuned, instead of merely the feeding line to or from the antenna as in Trikha et al. The teachings of Trikha et al. particularly relate to changing the matching of the feeding line according to the antenna used. Moreover, in the Trikha et al. reference one of the antennas, e.g. the external vehicle antenna, can be removed or switched off.

The Trikha et al. reference is directed to a dual band transceiver working with both an internal (telephone) antenna and an external (vehicle) antenna. One antenna is selected according to the mode and the other is “switched off” in a way to avoid switches in the antenna line. Thus, an antenna is located in the transceiver itself and the other is externally located in the vehicle, which makes them likely to be relatively far away from each other.

In contrast to Trikha et al., there are at least two antennas simultaneously present in Applicant’s claimed invention and because both of these antennas function in at least one common range of frequencies, they both share at least part of the same resonance frequency range. Accordingly, power transmitted from one antenna is absorbed by the other because of this common resonance frequency, and the other antenna also affects the radiation pattern of the first transmitting antenna. Thus, the solution presented by the subject claims is to detune the resonance frequency of the antenna itself to another “wrong” resonance frequency so as to reduce coupling of the transmitted signal from the first antenna circuit into the second antenna circuit.

It is respectfully asserted that the teachings of Trikha et al., whether viewed alone or in combination with any alleged admitted prior art, do not disclose nor suggest the subject claims as now further clarified by the foregoing amendments and remarks. Moreover, even if the teachings of Trikha et al. were applied to the problem presented and solved by the subject application, the two antennas would function in the same common range of frequencies and continue to disturb one another. The Trikha et al. reference does not provide any suggestion regarding how to solve the afore-referenced problem addressed by the subject claims as Trikha et al. do not even appear to be aware of a problem occurring when two antennas are functioning in, for example, the same frequency band with one in the near field of the other.

Additionally, contrary to the Examiner's position at page 3, last line of the Action, it is respectfully noted that Applicant does not claim to have invented a dual mode cellular phone operating in two or more overlapping frequency bands.

In view of the foregoing, Applicant asserts that one skilled in the art seeking to develop the claimed method for operating a multi-mode mobile station and multi-mode mobile station would not even be motivated to look to Trikha et al. for guidance nor modify its teachings in an attempt to arrive at the subject claims.

For at least the foregoing reasons, it is respectfully submitted that Trikha et al. do not disclose or suggest the presently claimed invention, whether viewed alone or in combination with the alleged admitted prior art teachings.


It is respectfully submitted that independent claims 1 and 12 are patentable and thus all of the remaining dependent claims are patentable as well, at least for the reason that each depends either directly or indirectly from an allowable independent claim.

The Examiner is requested to enter and consider the foregoing amendments as no new issues are raised that would require a further search. Thus, the Examiner is further requested to reconsider and remove the outstanding rejection, and to allow the claims as presented above. An early notification of the allowance of claims 1-22 is earnestly

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solicited.

Respectfully submitted:



Christine Wilkes Beninati  
Reg. No. 37,967

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Date

Customer No.: 29683

HARRINGTON & SMITH, LLP  
4 Research Drive  
Shelton, CT 06484-6212

Telephone: 203-925-9400  
Facsimile: 203-944-0245  
Email cbeninati@hspatent.com